```java
1  package semaphore.trafficLight.control;
2
3  import java.util.Timer;
7
8  public class SimpleTrafficLightControl implements TrafficLightControl {
9
10     public static enum State {
11         GREEN, YELLOW, RED, ALERT, OFF
12     }
13
14     State state = State.OFF;
15
16     private final TrafficLight trafficLight;
17
18     public SimpleTrafficLightControl (TrafficLight trafficLight)
19     {
20         this.trafficLight = trafficLight;
21     }
22
23     @Override
24     public void turnAlert() {
25
26         stopAlert();
27         configureAlert();
28
29     }
30
31     private Timer alertTimer;
32
33     private void configureAlert() {
34
35         trafficLight.spotGreen().turnOff();
36         trafficLight.spotYellow().turnOff();
37         trafficLight.spotRed().turnOff();
38
39         state = State.ALERT;
40
41         final long blinkTimer = 1000;
42         alertTimer = new Timer();
43
44         alertTimer.scheduleAtFixedRate(new TimerTask() {
45
46             @Override
47             public void run() {
48                 if (trafficLight.spotYellow().isOff())
49                     trafficLight.spotYellow().turnOn();
50                 else
51                     trafficLight.spotYellow().turnOff();
52             }
53         }, 0, (long) blinkTimer);
54     }
55
56     private void stopAlert() {
57         if (alertTimer != null) {
58
59         alertTimer.cancel();
60         alertTimer = null;
61
62         }
63     }
64
65     @Override
```

```java
 66     public void turnGreen() {
 67
 68         stopAlert();
 69         trafficLight.spotGreen().turnOn();
 70         trafficLight.spotYellow().turnOff();
 71         trafficLight.spotRed().turnOff();
 72         state = State.GREEN;
 73     }
 74
 75     @Override
 76     public void turnYellow() {
 77
 78         stopAlert();
 79         trafficLight.spotGreen().turnOff();
 80         trafficLight.spotYellow().turnOn();
 81         trafficLight.spotRed().turnOff();
 82         state = State.YELLOW;
 83     }
 84
 85     @Override
 86     public void turnRed() {
 87
 88         stopAlert();
 89         trafficLight.spotGreen().turnOff();
 90         trafficLight.spotYellow().turnOff();
 91         trafficLight.spotRed().turnOn();
 92         state = State.RED;
 93     }
 94
 95     @Override
 96     public void turnOff() {
 97
 98         stopAlert();
 99         trafficLight.spotGreen().turnOff();
100         trafficLight.spotYellow().turnOff();
101         trafficLight.spotRed().turnOff();
102         state = State.OFF;
103     }
104
105 }
106
```